



ERPO1.003APC.TXT

SEQUENCE LISTING

<110> Schor, Seth Lawrence  
Schor, Ana Maria

<120> Polypeptides, Polynucleotides and Uses  
Thereof

<130> ERPO1.003APC

<140> 09/581,651

<141> 2000-10-10

<150> PCT/GB98/03766

<151> 1998-12-15

<150> GB 9726539.1

<151> 1997-12-16

<160> 45

<170> FastSEQ for Windows Version 4.0

<210> 1

<211> 675

<212> PRT

<213> Homo sapiens

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Leu Cys Leu Gly Thr Ala Val Pro Ser Thr Gly Ala Ser Lys Ser Lys  
35 40 45  
Arg Gln Ala Gln Gln Met Val Gln Pro Gln Ser Pro Val Ala Val Ser  
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Gln Ser Lys Pro Gly Cys Tyr Asp Asn Gly Lys His Tyr Gln Ile Asn  
65 70 75 80  
Gln Gln Trp Glu Arg Thr Tyr Leu Gly Asn Val Leu Val Cys Thr Cys  
85 90 95  
Tyr Gly Gly Ser Arg Gly Phe Asn Cys Glu Ser Lys Pro Glu Ala Glu  
100 105 110  
Glu Thr Cys Phe Asp Lys Tyr Thr Gly Asn Thr Tyr Arg Val Gly Asp  
115 120 125  
Thr Tyr Glu Arg Pro Lys Asp Ser Met Ile Trp Asp Cys Thr Cys Ile  
130 135 140  
Gly Ala Gly Arg Gly Arg Ile Ser Cys Thr Ile Ala Asn Arg Cys His  
145 150 155 160  
Glu Gly Gly Gln Ser Tyr Lys Ile Gly Asp Thr Trp Arg Arg Pro His  
165 170 175  
Glu Thr Gly Gly Tyr Met Leu Glu Cys Val Cys Leu Gly Asn Gly Lys  
180 185 190  
Gly Glu Trp Thr Cys Lys Pro Ile Ala Glu Lys Cys Phe Asp His Ala  
195 200 205  
Ala Gly Thr Ser Tyr Val Val Gly Glu Thr Trp Glu Lys Pro Tyr Gln  
210 215 220  
Gly Trp Met Met Val Asp Cys Thr Cys Leu Gly Glu Gly Ser Gly Arg  
225 230 235 240  
Ile Thr Cys Thr Ser Arg Asn Arg Cys Asn Asp Gln Asp Thr Arg Thr  
245 250 255  
Ser Tyr Arg Ile Gly Asp Thr Trp Ser Lys Lys Asp Asn Arg Gly Asn

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&lt;213&gt; Homo sapiens

&lt;400&gt; 20

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Tyr	Glu	Gln	Asp	Gln	Lys	Tyr	Ser	Phe	Cys	Thr	Asp	His			
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&lt;211&gt; 48

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 21

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			20					25					30		
Gly	Arg	Gly	Glu	Trp	Thr	Cys	Ile	Ala	Tyr	Ser	Gln	Leu	Arg	Asp	Gln
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&lt;211&gt; 43

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 22

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			20					25					30		
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		35					40								

&lt;210&gt; 23

&lt;211&gt; 48

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 23

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			20					25					30		
Gly	Ile	Gly	Glu	Trp	His	Cys	Gln	Pro	Leu	Gln	Thr	Tyr	Pro	Ser	Ser
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&lt;211&gt; 39

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 24

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Asn Ile Asp Leu Thr Glu Lys Lys Lys Lys Lys  
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Glu Gly Arg Arg Asp Asn Met Lys Trp Cys Gly Thr Thr Gln Asn Tyr  
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35 40 45  
Lys Pro Gly Cys Tyr Asp Asn Gly Lys His Tyr Gln Ile Asn Gln Gln  
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Trp Glu Arg Thr Tyr Leu Gly Asn Val Leu Val Cys Thr Cys Tyr Gly  
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Gly Ser Arg Gly Phe Asn Cys Glu Ser Lys Pro Glu Ala Glu Glu Thr  
85 90 95  
Cys Phe Asp Lys Tyr Thr Gly Asn Thr Tyr Arg Val Gly Asp Thr Tyr  
100 105 110  
Glu Arg Pro Lys Asp Ser Met Ile Trp Asp Cys Thr Cys Ile Gly Ala  
115 120 125  
Gly Arg Gly Arg Ile Ser Cys Thr Ile Ala Asn Arg Cys His Glu Gly  
130 135 140  
Gly Gln Ser Tyr Lys Ile Gly Asp Thr Trp Arg Arg Pro His Glu Thr  
145 150 155 160  
Gly Gly Tyr Met Leu Glu Cys Val Cys Leu Gly Asn Gly Lys Gly Glu  
165 170 175  
Trp Thr Cys Lys Pro Ile Ala Glu Lys Cys Phe Asp His Ala Ala Gly  
180 185 190  
Thr Ser Tyr Val Val Gly Glu Thr Trp Glu Lys Pro Tyr Gln Gly Trp  
195 200 205  
Met Met Val Asp Cys Thr Cys Leu Gly Glu Gly Ser Gly Arg Ile Thr  
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Cys Thr Ser Arg Asn Arg Cys Asn Asp Gln Asp Thr Arg Thr Ser Tyr  
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370 375 380  
Trp Cys Ser Thr Thr Ser Asn Tyr Glu Gln Asp Gln Lys Tyr Ser Phe

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Asp Cys Thr Ser Glu Gly Arg Arg Asp Asn Met Lys Trp Cys Gly Thr
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Ala His Glu Glu Ile Cys Thr Thr Asn Glu Gly Val Met Tyr Arg Ile
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Gly Asp Gln Trp Asp Lys Gln His Asp Met Gly His Met Met Arg Cys
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Asp Thr Phe His Lys Arg His Glu Glu Gly His Met Leu Asn Cys Thr
530
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Glu Lys Tyr Val His Gly Val Arg Tyr Gln Cys Tyr Cys Tyr Gly Arg
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Gly Ile Gly Glu Trp His Cys Gln Pro Leu Gln Thr Tyr Pro Ser Ser
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Ser Gly Pro Val Glu Val Phe Ile Thr Glu Thr Pro Ser Gln Pro Asn
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35     40     45
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65     70     75
Gln Gln Trp Glu Arg Thr Tyr Leu Gly Asn Val Leu Val Cys Thr Cys
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Tyr Gly Gly Ser Arg Gly Phe Asn Cys Glu Ser Lys Pro Glu Ala Glu
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Glu Thr Cys Phe Asp Lys Tyr Thr Gly Asn Thr Tyr Arg Val Gly Asp

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Glu	Gly	Gly	Gln	Ser 165	Tyr	Lys	Ile	Gly	Asp 170	Thr	Trp	Arg	Arg	Pro 175	His	
Glu	Thr	Gly	Gly	Tyr	Met	Leu	Glu	Cys 185	Val	Cys	Leu	Gly	Asn 190	Gly	Lys	
Gly	Glu	Trp 195	Thr	Cys	Lys	Pro	Ile 200	Ala	Glu	Lys	Cys	Phe 205	Asp	His	Ala	
Ala	Gly 210	Thr	Ser	Tyr	Val	Val 215	Gly	Glu	Thr	Trp	Glu 220	Lys	Pro	Tyr	Gln	
Gly 225	Trp	Met	Met	Val	Asp 230	Cys	Thr	Cys	Leu	Gly 235	Glu	Gly	Ser	Gly	Arg 240	
Ile	Thr	Cys	Thr	Ser 245	Arg	Asn	Arg	Cys	Asn 250	Asp	Gln	Asp	Thr	Arg 255	Thr	
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Pro	Pro	Tyr	Gly	His 325	Cys	Val	Thr	Asp	Ser 330	Gly	Val	Val	Tyr	Ser 335	Val	
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Ser	Trp	Glu 595	Lys	Tyr	Val	His	Gly 600	Val	Arg	Tyr	Gln	Cys 605	Tyr	Cys	Tyr	
Gly	Arg 610	Gly	Ile	Gly	Glu	Trp 615	His	Cys	Gln	Pro	Leu 620	Gln	Thr	Tyr	Pro	

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625 630 635 640  
Pro Asn Ser His Pro Ile Gln Trp Asn Ala Pro Gln Pro Ser His Ile  
645 650 655  
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660 665 670  
Leu Gly Tyr Xaa Val Ser Xaa Ser Gln Phe Xaa Trp Phe Leu Phe Phe  
675 680 685  
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			20					25					30		
Leu	Cys	Leu	Gly	Thr	Ala	Val	Pro	Ser	Thr	Gly	Ala	Ser	Lys	Ser	Lys
		35					40					45			
Arg	Gln	Ala	Gln	Gln	Met	Val	Gln	Pro	Gln	Ser	Pro	Val	Ala	Val	Ser
	50					55					60				
Gln	Ser	Lys	Pro	Gly	Cys	Tyr	Asp	Asn	Gly	Lys	His	Tyr	Gln	Ile	Asn
65					70					75					80
Gln	Gln	Trp	Glu	Arg	Thr	Tyr	Leu	Gly	Asn	Val	Leu	Val	Cys	Thr	Cys
				85					90					95	
Tyr	Gly	Gly	Ser	Arg	Gly	Phe	Asn	Cys	Glu	Ser	Lys	Pro	Glu	Ala	Glu
			100					105					110		
Glu	Thr	Cys	Phe	Asp	Lys	Tyr	Thr	Gly	Asn	Thr	Tyr	Arg	Val	Gly	Asp
		115					120					125			
Thr	Tyr	Glu	Arg	Pro	Lys	Asp	Ser	Met	Ile	Trp	Asp	Cys	Thr	Cys	Ile
		130				135					140				
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145					150					155					160
Glu	Gly	Gly	Gln	Ser	Tyr	Lys	Ile	Gly	Asp	Thr	Trp	Arg	Arg	Pro	His
				165					170					175	
Glu	Thr	Gly	Gly	Tyr	Met	Leu	Glu	Cys	Val	Cys	Leu	Gly	Asn	Gly	Lys
			180					185					190		
Gly	Glu	Trp	Thr	Cys	Lys	Pro	Ile	Ala	Glu	Lys	Cys	Phe	Asp	His	Ala
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Gly	Trp	Met	Met	Val	Asp	Cys	Thr	Cys	Leu	Gly	Glu	Gly	Ser	Gly	Arg
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Ile	Thr	Cys	Thr	Ser	Arg	Asn	Arg	Cys	Asn	Asp	Gln	Asp	Thr	Arg	Thr
				245					250					255	
Ser	Tyr	Arg	Ile	Gly	Asp	Thr	Trp	Ser	Lys	Lys	Asp	Asn	Arg	Gly	Asn
			260					265					270		
Leu	Leu	Gln	Cys	Ile	Cys	Thr	Gly	Asn	Gly	Arg	Gly	Glu	Trp	Lys	Cys
		275					280					285			
Glu	Arg	His	Thr	Ser	Val	Gln	Thr	Thr	Ser	Ser	Gly	Ser	Gly	Pro	Phe
	290					295					300				
Thr	Asp	Val	Arg	Ala	Ala	Val	Tyr	Gln	Pro	Gln	Pro	His	Pro	Gln	Pro
305					310					315					320
Pro	Pro	Tyr	Gly	His	Cys	Val	Thr	Asp	Ser	Gly	Val	Val	Tyr	Ser	Val
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Gly	Met	Gln	Trp	Leu	Lys	Thr	Gln	Gly	Asn	Lys	Gln	Met	Leu	Cys	Thr
			340					345					350		
Cys	Leu	Gly	Asn	Gly	Val	Ser	Cys	Gln	Glu	Thr	Ala	Val	Thr	Gln	Thr
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Tyr	Gly	Gly	Asn	Ser	Asn	Gly	Glu	Pro	Cys	Val	Leu	Pro	Phe	Thr	Tyr
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385					390					395					400
His	Leu	Trp	Cys	Ser	Thr	Thr	Ser	Asn	Tyr	Glu	Gln	Asp	Gln	Lys	Tyr
				405					410					415	
Ser	Phe	Cys	Thr	Asp	His	Thr	Val	Leu	Val	Gln	Thr	Gln	Gly	Gly	Asn
			420					425					430		
Ser	Asn	Gly	Ala	Leu	Cys	His	Phe	Pro	Phe	Leu	Tyr	Asn	Asn	His	Asn
		435					440					445			
Tyr	Thr	Asp	Cys	Thr	Ser	Glu	Gly	Arg	Arg	Asp	Asn	Met	Lys	Trp	Cys
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Gly	Thr	Thr	Gln	Asn	Tyr	Asp	Ala	Asp	Gln	Lys	Phe	Gly	Phe	Cys	Pro
465					470					475					480
Met	Ala	Ala	His	Glu	Glu	Ile	Cys	Thr	Thr	Asn	Glu	Gly	Val	Met	Tyr
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Tyr	Ser	Gln	Leu	Arg	Asp	Gln	Cys	Ile	Val	Asp	Asp	Ile	Thr	Tyr	Asn
545	560	545	560	545	560	545	560	545	560	545	560	545	560	545	560
Val	Asn	Asp	Thr	Phe	His	Lys	Arg	His	Glu	Glu	Gly	His	Met	Leu	Asn
555	570	555	570	555	570	555	570	555	570	555	570	555	570	555	570
Cys	Thr	Cys	Phe	Gly	Gln	Gly	Arg	Gly	Arg	Trp	Lys	Cys	Asp	Pro	Val
580	595	580	595	580	595	580	595	580	595	580	595	580	595	580	595
Asp	Gln	Cys	Gln	Asp	Ser	Glu	Thr	Gly	Thr	Phe	Tyr	Gln	Ile	Gly	Asp
600	615	600	615	600	615	600	615	600	615	600	615	600	615	600	615
Ser	Trp	Glu	Lys	Tyr	Val	His	Gly	Val	Arg	Tyr	Gln	Cys	Tyr	Cys	Tyr
625	640	625	640	625	640	625	640	625	640	625	640	625	640	625	640
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635	650	635	650	635	650	635	650	635	650	635	650	635	650	635	650
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685	700	685	700	685	700	685	700	685	700	685	700	685	700	685	700
Ser	Lys	Tyr	Ile	Leu	Arg	Trp	Arg	Pro	Lys	Asn	Ser	Val	Gly	Arg	Trp
690	705	690	705	690	705	690	705	690	705	690	705	690	705	690	705
Lys	Glu	Ala	Thr	Ile	Pro	Gly	His	Leu	Asn	Ser	Tyr	Thr	Ile	Lys	Gly
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710	725	710	725	710	725	710	725	710	725	710	725	710	725	710	725
Tyr	Gly	His	Gln	Glu	Val	Thr	Arg	Phe	Asp	Phe	Thr	Thr	Thr	Ser	Thr
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